Page 3 of 18

Amendments to the Claims:

In response to the Official Action and in accordance with 37 CFR 1.121(c), please cancel Claims 2-12, and 16-20. Please enter new Claims 36-39. Finally, please enter the following rewritten claims:

- 1. (Currently Amended) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient at rest on a support surface, wherein is provided a predetermined patient turn interval, comprising:
 - a patient location sensor for determining at least approximately a location of the (a) patient on the support surface, wherein said patient location sensor comprises a chair mat;
 - (b) a time circuit;
 - (c) a microprocessor in electronic communication with said patient location sensor and said time circuit, said microprocessor at least for
 - (c1) determining from said time circuit and said patient location sensor a time since the patient last significantly changed location, and,
 - initiating a signal indicative of a state of the patient depending on at least (c2)said patient location and said time since the patient last significantly changed location; and,
 - an alarm in electronic communication with said microprocessor and responsive (d) thereto, said alarm at least for responding to said signal indicative of a state of the patient to produce an alarm signal.

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Attorney's Docket No.: 67179/03-655

Patent Amendment Page 4 of 18

- 2. Cancelled.
- 3. Cancelled.
- 4. Cancelled.
- 5. Cancelled.
- 6. Cancelled.
- 7. Cancelled.
- 8. Cancelled.
- 9. Cancelled.
- 10. Cancelled.
- 11. Cancelled.
- 12. Cancelled.

Patent Amendment Page 5 of 18

- 13. (Previously Presented) A method for reducing the risk of occurrence of decubitus ulcers in a patient, comprising the steps of:
 - (a) selecting a patient turn interval;
 - (b) selecting a persistence time period;
 - (c) determining a first position of the patient;
 - (d) determining a start time contemporaneously with the determination of step (c);
 - (e) determining a current position of the patient;
 - (f) comparing said first position and said current position to determine if the patient has changed position;
 - (g) if the patient has not changed position,
 - (g1) determining an clapsed time since said start time,
 - (g2) comparing said elapsed time with said selected turn interval, and,
 - (g3) activating an alarm if said elapsed time exceeds said selected patient turn interval;
 - (h) if the patient has changed position,
 - (h1) continuing to monitor the patient for a period of time at least equal to the persistence time period,
 - (h2) if the patient returns at least approximately to said first position before the end of the persistence time period, continuing to monitor the patient until at least the end of said selected patient turn interval;
 - (h3) if the patient does not return to said first position before the end of the persistence period,
 - (i) determining a new first position,

Page 6 of 18

- (ii) determining a new start time contemporaneously with said determination of said new first position, and,
- (iii) continuing to monitor the patient according to steps (e) through (h) using said new start time in place of said start time and said new first position in place of said first position.
- 14. (Previously Presented) A method for reducing the risk of occurrence of decubitus ulcers in a patient at rest on a support surface, comprising the steps of:
 - (a) selecting a patient turn interval;
 - (b) selecting a persistence time period, said persistence time period being less than said patient turn interval and greater than zero;
 - (c) determining an initial position of the patient on the support surface;
 - (d) continuously monitoring a patient's position on a support surface for a period of time at least as long as said patient turn interval;
 - (e) if, during the monitoring period, the patient did not move from said initial position, activating an alarm at the end of the patient turn interval;
 - (f) if, during the monitoring period, the patient moved from said initial position to a new position, but said new position was not maintained for a period of time at least as long as said persistence time period, activating an alarm at the end of the patient turn interval;
 - (g) if, during the monitoring period, the patient moved from said initial position to said new position, and said new position was maintained for a period of time at

Patent Amendment
Page 7 of 18

least as long as said persistence time period, continuing to monitor the patient until at least the end of the patient turn interval; and,

- (h) performing at least steps (c) through (g) as necessary to reduce the risk of occurrence of decubitus ulcers in the patient.
- 15. (Currently Amended) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient at rest on a support surface, wherein is provided a predetermined patient turn interval, comprising:
 - (a) a patient location sensor for determining at least approximately a location of the
 patient on the support surface;
 - (b) a time circuit;
 - a monitor circuit in electronic communication with said patient location sensor
 and said time circuit, wherein said monitor circuit is comprised of a plurality of
 resettable analog timers, said monitor circuit at least for
 - (c1) determining from said time circuit and said patient location sensor a time since the patient last significantly changed location, and,
 - (c2) initiating a signal indicative of a state of the patient depending on at least said patient location and said time since the patient last significantly changed location; and,
 - (e) an alarm in electronic communication with said monitor circuit and responsive thereto, said alarm at least for responding to said signal indicative of a state of the patient to produce an alarm signal.

Patent Amendment Page 8 of 18

- 16. Cancelled.
- 17. Cancelled.
- 18. Cancelled.
- 19. Cancelled.
- 20. Cancelled.
- 21. (Previously Presented) An optical patient sensor for determining a position of a patient on a support surface, said patient sensor having a first end and a second end comprising:
 - (a) an upper external member;
 - (b) a lower external member, said upper and lower members having substantially the same peripheral dimensions and being positionable together to create an interior of said patient sensor therebetween;
 - (c) an optically transmissive central core positionable between said upper and lower members within said interior of said patient sensor, said central core having a first end and a second end, wherein,
 - (c1) said first end of said central core is proximate to a first end of said patient sensor and, said second end of said central core is proximate to said second end of said patient sensor,

Patent Amendment Page 9 of 18

- (c2) said first end of the central core is positionable to be in optical communication with a light source,
- (c3) said second end of the central core is positionable to be in optical communication with a light sensor,
- (c4) said patient sensor is positionable to be underneath the patient,
- (c5) said central core is elastically deformed by a patient's weight when so positioned underneath the patient, and,
- (c6) an attribute of said light transmitted from said light source to said light sensor through said central core is a function of the patient's position on the support surface.
- 22. (Original) An apparatus according to Claim 21, wherein said upper member and said lower member have at least approximately rectangular peripheral dimensions.
- 23. (Original) An apparatus according to Claim 21, wherein said optically conductive core comprises at least one tube of optically transmissive plastic.
- 24. (Original) An apparatus according to Claim 23, wherein said optically conductive core comprises at least one strand of fiber optic cable.
- 25. (Original) An apparatus according to Claim 21, wherein said upper and lower members are impermeable to fluid.

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T-106 P.013/021 F-45

Attorney's Docket No.: 67179/03-655

Patent Amendment Page 10 of 18

- 26. (Original) An apparatus according to Claim 21, wherein said light source is positionable to be proximate to said first end of said central core, wherein said light sensor is positionable to be proximate to said first end of said central core, and wherein at least a portion of the light reaching said second end of said central core is reflected back toward said first end of said central core.
- 27. (Previously Presented) An apparatus according to Claim 21, wherein said optically transmissive central core comprises a sheet of optically conductive material.
- 28. (Previously Presented) An apparatus according to Claim 21, wherein said amount of light transmitted from said light source to said light sensor through said optically transmissive central core is a function of whether or not the patient is present on the support surface.
- 29. (Currently Amended) An optical patient sensor according to Claim 21, further comprising:
 - (d) a patient monitor in communication with said patient sensor, said patient monitor comprising,
 - (dl) a light source in optical communication with said optically transmissive transmissive central core first end,
 - (d2) an optical pickup in optical communication with said optically transmissive central core second end,

Patent Amendment Page 11 of 18

- (d3) a microprocessor in electronic communication with said light source and said optical pickup,
- (d4) computer storage accessible by said microprocessor, said computer storage at least containing a plurality of instructions executable by said microprocessor for:
 - (i) determining an amount of attenuation of said light source as measured through said central core by said optical pickup, and,
 - (ii) determining the position of the patient on the support surface from at least said determined amount of attenuation.
- 30. (Previously Presented) An optical patient sensor according to Claim 21, wherein said attribute of said light transmitted from said light source to said light sensor through said optically transmissive central core of (c6) is selected from a group consisting of an attenuation of said light, a frequency of said light, and a travel time of said light.
- 31. (Currently Amended) A method of determining a position of a patient on a support surface, comprising:
 - (a) placing an optically transmissive element beneath the patient, wherein
 - (a1) said optically transmissive element is deformed by a portion of the weight of the patient resting thereon, and,
 - (a2) an amount of light transmitted through said optically transmissive element varies as a function of the patient's position on the support surface;
 - (b) activating a light source;

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Attorney's Docket No.: 67179/03-655

Patent Amendment Page 12 of 18

- placing said light source in optical communication with said optically transmissive element;
- (d) transmitting at least a portion of the light from said light source though at least a portion of said optically transmissive transmissive element;
- (e) measuring an attribute of any light so transmitted; and,
- (f) determining from said measured attribute at least an approximate position of the patient's weight on said optically transmissive element; thereby at least approximately determining at least an approximate position of the patient on the support surface.
- 32. (Previously Presented) A method of determining a position of a patient on a support surface according to Claim 31, wherein step (f) comprises the step of:
 - (f1) determining from said measured attribute whether or not the patient's weight is bearing on said optically transmissive element, thereby determining whether the patient is present on the support surface.
- 33. (Currently Amended) A method of determining a position of a patient on a support surface according to Claim 31, wherein step (d) comprises the steps of:
 - (d1) transmitting at least a portion of the light from said light source through_at least a portion of said optically transmissive transmissive element, and,

Page 13 of 18

(d2)reflecting back toward said light source at least a portion of the light transmitted through said at least a portion of said optically transmissive element, and,

wherein step (e) comprises the steps of:

- receiving in a light sensor at least a portion of said reflected light, and, (e1)
- measuring an attribute of any reflected light so received. (e2)
- (Original) A method of determining a position of a patient on a support surface 34. according to Claim 33, wherein said light attribute of step (e) is selected from a group consisting of an attenuation of said transmitted light, a frequency of said light, and a travel time of said transmitted light.
- 35. (Original) A method of determining a position of a patient on a support surface according to Claim 31, wherein said light attribute of step (e) is selected from a group consisting of an attenuation of said transmitted light, a frequency of said light, and a travel time of said transmitted light.
- (New) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient at 36. rest on a bed, said bed having at least four legs, wherein is provided a predetermined patient turn interval, comprising:
 - a patient location sensor for determining at least approximately a location of the (a) patient on the support surface, wherein said patient location sensor includes at

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Attorney's Docket No.: 67179/03-655

Patent Amendment Page 14 of 18

least four weight sensors, one weight sensor being positioned under each of said four bed legs;

- (b) a time circuit;
- (c) a microprocessor in electronic communication with said patient location sensor and said time circuit, said microprocessor at least for
 - (c1) determining from said time circuit and said patient location sensor a time since the patient last significantly changed location, and,
 - (c2) initiating a signal indicative of a state of the patient depending on at least said patient location and said time since the patient last significantly changed location; and,
- (f) an alarm in electronic communication with said microprocessor and responsive thereto, said alarm at least for responding to said signal indicative of a state of the patient to produce an alarm signal.
- 37. (New) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient at rest on a support surface, wherein is provided a predetermined patient turn interval, comprising:
 - a patient location sensor for determining at least approximately a location of the
 patient on the support surface, wherein,

said patient location sensor is a mat containing a plurality of sensor points thereon,

Patent Amendment Page 15 of 18

each of said plurality of sensor points being separately readable by said microprocessor,

said sensor points being for use in determining at least approximately a location of the patient;

- (b) a time circuit;
- (c) a microprocessor in electronic communication with said patient location sensor and said time circuit, said microprocessor at least for
 - (c1) determining from said time circuit and said patient location sensor a time since the patient last significantly changed location, and,
 - (c2) initiating a signal indicative of a state of the patient depending on at least said patient location and said time since the patient last significantly changed location; and,
- (g) an alarm in electronic communication with said microprocessor and responsive thereto, said alarm at least for responding to said signal indicative of a state of the patient to produce an alarm signal.
- 38. (New) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient according to Claim 37, wherein said sensor points are temperature sensors.
- 39. (New) An apparatus for reducing the risk of occurrence of decubitus ulcers in a patient according to Claim 37, wherein said sensor points are piezoelectric elements.

Page 16 of 18

AMENDMENTS

Amendments to the Claims

The claims submitted above are intended to place the instant case in condition for allowance per the Examiner's suggestions and are believed not to raise any new issues in the instant prosecution.

Claims 13, 14, and 21-35 stand as having been previously allowed.

Claim 3 stands as being objected to by the Examiner. Claim 1, from which Claim 3 depends, has been rewritten to include the text of every limitation of the dependent claim. Thus, it is believed that this Claim 1 is in condition for allowance.

Claim 7 stands as being objected to by the Examiner. New Claim 36 has written by including within the text of independent Claim 1 every limitation from Claims 6 and 7 (Claim 7 depends from Claim 6, which depends from Claim 1). Thus, it is believed that Claim 36 is now in condition for allowance.

Claims 9 - 11 stand as being objected to by the Examiner. New Claim 37 has been written by including within the text of independent Claim 1 every limitation of Claim 9. Claims 10 and 11, which depend from Claim 9, have been written as new Claims 38 and 39, each of which depends from new claim 37.

Claim 17 stands as being objected to by the Examiner. Claim 15, from which Claim 17 depends, has been rewritten to include the text of every limitation of the dependent claim. Thus, it is believed that Claim 15 now is in condition for allowance.

Finally, some claim amendments offered in response to the Office Action mailed July 21, 2005 that were not entered are offered again here. More particularly, Claims 29, 31, and 33 have

Dec-16-05 08:13am From-FSBB&T 9185839659 T-106 P.020/021 F-451

Attorney's Docket No.: 67179/03-655

Patent Amendment Page 17 of 18

been modified to correct the spelling of "transmissive". The Examiner indicated that such amendments would not be entered in view of issues remaining in the case at that time, but that they would be otherwise acceptable.